

Compressor oils

MVK-1 and MVK-2 cover the requirements according to the DIN 51506 standard. Lubricating groups VB and VC.

Exploitation level	Air temperature at thickening °C, ≤	Application
MVK-1	140	Reciprocating and rotational compressors under light to medium loading, requiring oils with standard oxidation resistance and protection.
MVK-2	220	Compressors with a circulating lubricating system and reciprocating compressors with a mixed lubricating system, requiring oils with a high oxidation stability, rust and corrosion protection and advanced lubricating properties.

Technical requirements							
№	Index	Viscosity class					Testing methods
		100	150	220	320	460	
1.	Kinematic viscosity, at 40 °C,mm ² /s	100±10	150±15	220±20	320±30	460±40	EN ISO 3104
2.	Carbon residue,% ≤	0,15	0,25	0,40	0,50	0,80	БДС 10087-90
3.	Pouring temperature, °C ≤	-10	-10	-10	-10	-8	ISO 3016
4.	Overall acidity number mgKOH/g	0,025	0,03	0,035	0,045	0,05	ISO 6618
5.	Flash point,°C ,≥	220	230	240	245	280	EN ISO 2592
6.	Mechanical particulates, % ≤	none	none	none	none	none	EN 12662
7.	Water content % ,≤	none	none	none	none	none	EN ISO 12937
8.	Oxydation stability ,carbon residue % , ≤	1,5	1,5	1,5	1,5	1,5	БДС 14901-79 Method A

Requirements for oils applicable to air compressors				
№	Index	Exploitation level		Testing method
		MVK-1	MVK-2	
1.	Stability of oxydation: -Increase of soot residue,%, ≤: For viscosity class 100 For viscosity classes 150,220,320 and 460 -Carbon residue after oxydation,%, ≤ , for viscosity classes 100,150	 2,0 2,5 -	 - - 3,0	БДС 14901-90 Method A БДС 14901-90 Method B
2.	Evaporation losses at 250°C, in % , ≤. Applicable to viscosity classes: 100 150 220 320 460	 8 6 5 3 1	 - - - - -	БДС 8088-90
3.	Properties of residue after distillation at 80% and lowered pressure - Carbon residue, %, ≤ For viscosity classes: 100 150 - ratio between kinematic viscosity at 40 °C of the residue and the oil,≤	 - - -	 0,3 0,6 4	ISO 6615 ISO 3104
4.	De-emulsifier properties in cm ³ /min,≤	-	40-37-3/30/	ISO 6614
5.	Anti-corrosion properties in distilled water	-	ok	ISO 3016